

Garry L Corthals

List of Publications by Year in descending order

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103
papers

6,304
citations

94269

37
h-index

66788

78
g-index

108
all docs

108
docs citations

108
times ranked

8702
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of two-dimensional gel electrophoresis-based proteome analysis technology. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9390-9395.	3.3	1,250
2	The dynamic range of protein expression: A challenge for proteomic research. Electrophoresis, 2000, 21, 1104-1115.	1.3	603
3	A panel of cerebrospinal fluid potential biomarkers for the diagnosis of Alzheimer's disease. Proteomics, 2003, 3, 1486-1494.	1.3	344
4	Identification of Flow-dependent Endothelial Nitric-oxide Synthase Phosphorylation Sites by Mass Spectrometry and Regulation of Phosphorylation and Nitric Oxide Production by the Phosphatidylinositol 3-Kinase Inhibitor LY294002. Journal of Biological Chemistry, 1999, 274, 30101-30108.	1.6	296
5	The Human Proteome Project: Current State and Future Direction. Molecular and Cellular Proteomics, 2011, 10, M111.009993.	2.5	294
6	A gene encoding a novel RFX-associated transactivator is mutated in the majority of MHC class II deficiency patients. Nature Genetics, 1998, 20, 273-277.	9.4	262
7	A Cortactin-CD2-associated Protein (CD2AP) Complex Provides a Novel Link between Epidermal Growth Factor Receptor Endocytosis and the Actin Cytoskeleton. Journal of Biological Chemistry, 2003, 278, 21805-21813.	1.6	192
8	Peptide and protein imaging mass spectrometry in cancer research. Journal of Proteomics, 2010, 73, 1921-1944.	1.2	143
9	ApoC-I and ApoC-III as potential plasmatic markers to distinguish between ischemic and hemorrhagic stroke. Proteomics, 2004, 4, 2242-2251.	1.3	119
10	Vimentinâ€“ERK Signaling Uncouples Slug Gene Regulatory Function. Cancer Research, 2015, 75, 2349-2362.	0.4	112
11	Cystatin C as a potential cerebrospinal fluid marker for the diagnosis of Creutzfeldt-Jakob disease. Proteomics, 2004, 4, 2229-2233.	1.3	95
12	Comprehensive analyses of prostate gene expression: Convergence of expressed sequence tag databases, transcript profiling and proteomics. Electrophoresis, 2000, 21, 1823-1831.	1.3	86
13	Prefractionation of protein samples prior to two-dimensional electrophoresis. Electrophoresis, 1997, 18, 317-323.	1.3	84
14	Identification of Protein Interactions Involved in Cellular Signaling. Molecular and Cellular Proteomics, 2013, 12, 1752-1763.	2.5	84
15	Size distributions of droplets produced by ultrasonic nebulizers. Scientific Reports, 2019, 9, 6128.	1.6	79
16	Akt Mediates Insulin-stimulated Phosphorylation of Ndr2. Journal of Biological Chemistry, 2004, 279, 18623-18632.	1.6	76
17	Exploitation of specific properties of trifluoroethanol for extraction and separation of membrane proteins. Proteomics, 2003, 3, 1418-1424.	1.3	74
18	Reference-facilitated Phosphoproteomics. Molecular and Cellular Proteomics, 2007, 6, 1380-1391.	2.5	72

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19	Faecal Metaproteomic Analysis Reveals a Personalized and Stable Functional Microbiome and Limited Effects of a Probiotic Intervention in Adults. <i>PLoS ONE</i> , 2016, 11, e0153294.	1.1	70
20	Phosphoproteomics to Characterize Host Response During Influenza A Virus Infection of Human Macrophages. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3203-3219.	2.5	66
21	Multifunctional apparatus for electrokinetic processing of proteins. <i>Electrophoresis</i> , 1994, 15, 968-971.	1.3	63
22	Data-Dependent Modulation of Solid-Phase Extraction Capillary Electrophoresis for the Analysis of Complex Peptide and Phosphopeptide Mixtures by Tandem Mass Spectrometry: An Application to Endothelial Nitric Oxide Synthase. <i>Analytical Chemistry</i> , 1999, 71, 2279-2287.	3.2	63
23	Identification of miR-193b Targets in Breast Cancer Cells and Systems Biological Analysis of Their Functional Impact. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.005322.	2.5	60
24	Correlation of proteomic and transcriptomic profiles of <i>Staphylococcus aureus</i> during the post-exponential phase of growth. <i>Journal of Microbiological Methods</i> , 2005, 60, 247-257.	0.7	59
25	Quantitative Proteomics Analysis of the Nuclear Fraction of Human CD4+ Cells in the Early Phases of IL-4-induced Th2 Differentiation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1937-1953.	2.5	55
26	Protein phosphatase 2A (PP2A) regulatory subunit B α interacts with cytoplasmic ACONITASE 3 and modulates the abundance of AOX1A and AOX1D in <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2015, 205, 1250-1263.	3.5	55
27	Optimization of Statistical Methods Impact on Quantitative Proteomics Data. <i>Journal of Proteome Research</i> , 2015, 14, 4118-4126.	1.8	54
28	Microarray profiling of host-extract-induced genes and characterization of the type VI secretion cluster in the potato pathogen <i>Pectobacterium atrosepticum</i> . <i>Microbiology (United Kingdom)</i> , 2008, 154, 2387-2396.	0.7	53
29	Selenoprotein biosynthesis defect causes progressive encephalopathy with elevated lactate. <i>Neurology</i> , 2015, 85, 306-315.	1.5	52
30	Discussion point: reporting guidelines for mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2035-2045.	1.9	51
31	Identification of Phosphorylation Sites Using Microimmobilized Metal Affinity Chromatography. <i>Methods in Enzymology</i> , 2005, 405, 66-81.	0.4	49
32	Label-free quantitative phosphoproteomics with novel pairwise abundance normalization reveals synergistic RAS and CIP2A signaling. <i>Scientific Reports</i> , 2015, 5, 13099.	1.6	49
33	Phosphorylation of Notch1 by Pim kinases promotes oncogenic signaling in breast and prostate cancer cells. <i>Oncotarget</i> , 2016, 7, 43220-43238.	0.8	49
34	Phosphoproteome and drug-response effects mediated by the three protein phosphatase 2A inhibitor proteins CIP2A, SET, and PME-1. <i>Journal of Biological Chemistry</i> , 2020, 295, 4194-4211.	1.6	48
35	Preparative reflux electrophoresis. <i>Electrophoresis</i> , 1995, 16, 98-100.	1.3	45
36	In-Culture Cross-Linking of Bacterial Cells Reveals Large-Scale Dynamic Protein-Protein Interactions at the Peptide Level. <i>Journal of Proteome Research</i> , 2017, 16, 2457-2471.	1.8	44

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37	Expression of a tyrosine phosphorylated, DNA binding Stat3 ^β dimer in bacteria. FEBS Letters, 1998, 441, 141-147.	1.3	42
38	Tumor protein D52 (TPD52): a novel B-cell/plasma-cell molecule with unique expression pattern and Ca ²⁺ -dependent association with annexin VI. Blood, 2005, 105, 2812-2820.	0.6	41
39	MSiMass List: A Public Database of Identifications for Protein MALDI MS Imaging. Journal of Proteome Research, 2014, 13, 1138-1142.	1.8	40
40	Using Peptide-Level Proteomics Data for Detecting Differentially Expressed Proteins. Journal of Proteome Research, 2015, 14, 4564-4570.	1.8	40
41	Quantitative Site-Specific Phosphoproteomics of <i>Trichoderma reesei</i> Signaling Pathways upon Induction of Hydrolytic Enzyme Production. Journal of Proteome Research, 2016, 15, 457-467.	1.8	40
42	N-t-butyl-iodoacetamide and iodoacetanilide: two new cysteine alkylating reagents for relative quantitation of proteins. Rapid Communications in Mass Spectrometry, 2004, 18, 117-127.	0.7	37
43	Gradiflow as a prefractionation tool for two-dimensional electrophoresis. Proteomics, 2002, 2, 1254-1260.	1.3	36
44	Identification of new Golgi complex specific proteins by direct organelle proteomic analysis. Proteomics, 2006, 6, 3502-3508.	1.3	35
45	Nonredundant mass spectrometry: A strategy to integrate mass spectrometry acquisition and analysis. Proteomics, 2004, 4, 917-927.	1.3	34
46	Proteomic tools for biomedicine. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 771, 33-48.	1.2	33
47	Proteome analysis of tissues by mass spectrometry. Mass Spectrometry Reviews, 2019, 38, 403-441.	2.8	31
48	The molecular scanner: concept and developments. Current Opinion in Biotechnology, 2004, 15, 17-23.	3.3	28
49	Murine cathepsin D deficiency is associated with dysmyelination/myelin disruption and accumulation of cholesteryl esters in the brain. Journal of Neurochemistry, 2010, 112, 193-203.	2.1	28
50	Proprotein Convertase FURIN Constrains Th2 Differentiation and Is Critical for Host Resistance against <i>Toxoplasma gondii</i> . Journal of Immunology, 2014, 193, 5470-5479.	0.4	28
51	Characterization of heat shock protein 27 phosphorylation sites in renal cell carcinoma. Proteomics, 2005, 5, 788-795.	1.3	27
52	Confident Site Localization Using a Simulated Phosphopeptide Spectral Library. Journal of Proteome Research, 2015, 14, 2348-2359.	1.8	26
53	Absence of Ataxin-3 Leads to Enhanced Stress Response in <i>C. elegans</i> . PLoS ONE, 2011, 6, e18512.	1.1	26
54	Ataxin-3 Plays a Role in Mouse Myogenic Differentiation through Regulation of Integrin Subunit Levels. PLoS ONE, 2010, 5, e11728.	1.1	25

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55	Development of a Quantitative SRM-Based Proteomics Method to Study Iron Metabolism of <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Proteome Research</i> , 2016, 15, 266-279.	1.8	25
56	Going forward: Increasing the accessibility of imaging mass spectrometry. <i>Journal of Proteomics</i> , 2012, 75, 5113-5121.	1.2	24
57	Cross-species identification of proteins from proteome profiles of the marine oligotrophic ultramicrobacterium, <i>Sphingopyxis alaskensis</i> . <i>Proteomics</i> , 2004, 4, 1779-1788.	1.3	23
58	Cathepsin D deficiency induces cytoskeletal changes and affects cell migration pathways in the brain. <i>Neurobiology of Disease</i> , 2013, 50, 107-119.	2.1	23
59	A cyclic-olefin-copolymer microfluidic immobilized-enzyme reactor for rapid digestion of proteins from dried blood spots. <i>Journal of Chromatography A</i> , 2017, 1491, 36-42.	1.8	22
60	Fast and Simple Protocols for Mass Spectrometry-Based Proteomics of Small Fresh Frozen Uterine Tissue Sections. <i>Analytical Chemistry</i> , 2017, 89, 10769-10775.	3.2	22
61	Surface Acoustic Wave Nebulisation Mass Spectrometry for the Fast and Highly Sensitive Characterisation of Synthetic Dyes in Textile Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2108-2116.	1.2	22
62	Relevance Rank Platform (RRP) for Functional Filtering of High Content Protein-Protein Interaction Data*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 3274-3283.	2.5	19
63	The role of pH and membrane porosity in preparative electrophoresis. <i>Electrophoresis</i> , 1996, 17, 771-775.	1.3	18
64	Ovarian Endometriosis Signatures Established through Discovery and Directed Mass Spectrometry Analysis. <i>Journal of Proteome Research</i> , 2014, 13, 4983-4994.	1.8	17
65	Phosphorylation of NFATC1 at PIM1 target sites is essential for its ability to promote prostate cancer cell migration and invasion. <i>Cell Communication and Signaling</i> , 2019, 17, 148.	2.7	17
66	Purification by reflux electrophoresis of whey proteins and of a recombinant protein expressed in <i>Dictyostelium discoideum</i> . <i>Journal of Chromatography A</i> , 1997, 773, 299-309.	1.8	15
67	On-target ultrasonic digestion of proteins. <i>Proteomics</i> , 2013, 13, 1423-1427.	1.3	14
68	ATX-3, CDC-48 and UBXN-5: A new trimolecular complex in <i>Caenorhabditis elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009, 386, 575-581.	1.0	13
69	Solvent-mediated extraction of fatty acids in bilayer oil paint models: a comparative analysis of solvent application methods. <i>Heritage Science</i> , 2019, 7, .	1.0	13
70	The dynamic range of protein expression: A challenge for proteomic research. , 2000, 21, 1104.		13
71	Changes in Gene Expression Associated with Stable Drug and Radiation Resistance in Small Cell Lung Cancer Cells are Similar to those Caused by a Single X-Ray Dose. <i>Radiation Research</i> , 2004, 161, 495-503.	0.7	11
72	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for quantitation and molecular stability assessment of insulin entrapped within PLGA nanoparticles. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 688-694.	1.6	11

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73	Nitromatrix provides improved LC-MALDI signals and more protein identifications. <i>Proteomics</i> , 2009, 9, 1662-1671.	1.3	10
74	Annual Spring Meeting of the Proteomics Standards Initiative. <i>Proteomics</i> , 2009, 9, 4429-4432.	1.3	9
75	Isotopic labelling of peptides in tissues enhances mass spectrometric profiling. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 254-262.	0.7	8
76	SimPhospho: a software tool enabling confident phosphosite assignment. <i>Bioinformatics</i> , 2018, 34, 2690-2692.	1.8	8
77	Utilizing Surface Acoustic Wave Nebulization (SAWN) for the Rapid and Sensitive Ambient Ionization Mass Spectrometric Analysis of Organic Explosives. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2655-2669.	1.2	8
78	Protein Information and Knowledge Extractor: Discovering biological information from proteomics data. <i>Proteomics</i> , 2010, 10, 3262-3271.	1.3	7
79	Liver lipid metabolism is altered by increased circulating estrogen to androgen ratio in male mouse. <i>Journal of Proteomics</i> , 2016, 133, 66-75.	1.2	7
80	Evaluation of Fast and Sensitive Proteome Profiling of FF and FFPE Kidney Patient Tissues. <i>Molecules</i> , 2022, 27, 1137.	1.7	7
81	Identification of differentially expressed proteins in <i>Ficedula</i> flycatchers. <i>Proteomics</i> , 2008, 8, 2150-2153.	1.3	6
82	Enrichment and sequencing of phosphopeptides on indium tin oxide coated glass slides. <i>Molecular BioSystems</i> , 2011, 7, 1828.	2.9	6
83	Human serum protein enhances HIV-1 replication and up-regulates the transcription factor AP-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17639-17644.	3.3	6
84	Surface Acoustic Wave Nebulization-Mass Spectrometry as a New Tool to Investigate the Water Sensitivity Behavior of 20th Century Oil Paints. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 444-454.	1.2	6
85	Concanavalin-A Induces Granulosa Cell Death and Inhibits FSH-Mediated Follicular Growth and Ovarian Maturation in Female Rats. <i>Endocrinology</i> , 2013, 154, 1885-1896.	1.4	5
86	Cross-Correlation of Spectral Count Ranking to Validate Quantitative Proteome Measurements. <i>Journal of Proteome Research</i> , 2014, 13, 1957-1968.	1.8	5
87	Report. Proteomics Education, an Important Challenge for the Scientific Community: Report on the Activities of the EuPA Education Committee. <i>Proteomics</i> , 2006, 6, 77-81.	1.3	4
88	Promoting Proteomics Knowledge in Europe. <i>Proteomics</i> , 2007, 7, 90-94.	1.3	4
89	Phosphopeptide enrichment with stable spatial coordination on a titanium dioxide coated glass slide. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 3661-3667.	0.7	4
90	The European Proteomics Association (EuPA) is in the field Report of the formal inauguration of the European Proteome Association (Munich, Germany, August 29, 2005). <i>Proteomics</i> , 2005, 5, 4648-4650.	1.3	3

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91	Mass Spectrometry in Laboratory Medicine. <i>Clinical Chemistry and Laboratory Medicine</i> , 2003, 41, 1539.	1.4	2
92	Data combination from multiple matrix-assisted laser desorption/ionization (MALDI) matrices: opportunities and limitations for MALDI analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 3493-3495.	0.7	2
93	Preface. <i>Journal of Proteomics</i> , 2012, 75, 4881-4882.	1.2	2
94	Discovery of New Diagnostic Markers of Stroke. , 2004, , 57-72.		1
95	Proteomics in clinical and fundamental medicine. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2002, 62, 7-7.	0.6	0
96	Human Cerebrospinal Fluid. , 2004, , 341-353.		0
97	STRATEGIES FOR QUANTITATIVE MEMBRANE PROTEIN PROFILING. <i>Shock</i> , 2004, 21, 1.	1.0	0
98	The transition of the European Proteomics Association into the future. <i>Journal of Proteomics</i> , 2011, 75, 18-22.	1.2	0
99	Tumor Protein D52 (TPD52): A Novel B Cell/Plasma Cell Molecule Identified through a Proteomic Approach and Characterized by Unique Expression Pattern and Ca ²⁺ -Dependent Association with Annexin VI.. <i>Blood</i> , 2004, 104, 3652-3652.	0.6	0
100	Offline Micro-IMAC Enrichment of Phosphoproteins. <i>Cold Spring Harbor Protocols</i> , 2007, 2007, pdb.prot4624.	0.2	0
101	Analysis of Phosphopeptides by ¹⁵ N-LC-ESI-MS/MS. <i>Cold Spring Harbor Protocols</i> , 2007, 2007, pdb.prot4625.	0.2	0
102	Abstract 512: Pim kinases and Pim inhibitors in the regulation of prostate cancer cell migration and invasion. , 2015, , .		0
103	Abstract 5328: Protein phosphatase 2A activity is a major determinant of therapy response in cancer cells. , 2015, , .		0